Author Index-Volume 40, 2000

Current Microbiology

An International Journal

Springer-Verlag New York Inc. 2000

Abeliovich, Aharon, 135 Akao, Tetsuyuki, 217 Ali, Rabia Y., 269 Allende, Jose L., 34 Almeida, Ligia, 356 Amick, Denise, 269 Anderson, Paige, 333 Ankarloo, Jonas, 51 Antal, Zsuzsanna, 310 Anton, Dora N., 72

Balows, Albert, 214 Banks, Donna, 29 Bao, Li-li, 101 Barnum, Susan R., 283 Beard, Cheryl E., 164 Bel, Yolanda, 17 Bennett, Jason, 409 Berg, Alexandra, 51 Bergquist, Peter L., 333 Berner, Jean-Marie, 372 Blanchart, Gerard, 380 Boiron, Patrick, 1 Boison, Gudrun, 315 Boopathy, R., 190 Bordons, Albert, 351 Bothe, Hermann, 315 Brantner, Christine A., 132 Buchholz, Lorie A., 132 Burge, Harriet A., 10 Burgess, Diana M., 327

Caballero, Primitivo, 17, 402 Cabodi, Daniela, 96 Caccavo, Frank, Jr. 344 Callaway, Todd R., 185 Caugant, Dominique A., 51, 372 Centron, Daniela, 302 Chak, Kin-Fu, 227 Chakrabarti, Syamal K., 239 Chang, Chung J., 29 Chatakondu, Saikrishna, 119 Chauhan, Sanjay, 297 Chen, Jianchi, 29 Cho, Jaie-Soon, 257 Choi, Yun-Jaie, 257 Chung. Dae-Kyun. 257 Collins, Mary Lynne Perille, 132 Cooley, J. Danny, 306 Correia, Antonio C.M., 137 Costa, Jose-Luis, 356 Cuezzo de Gines, Silvia, 181

D'Souza, Lisa M., 91 da Costa, Paulo I., 279 Das, Amitabha, 344 Dawson, Karl A., 140 Dellaglio, Franco, 351 Diaz-Minguez, Jose Maria, 169 Duarte, Jose, M.C., 137 Dumanoir, Veronique Cosmao, 17 Dutertre, Murielle, 245

Erbeznik, Milutin, 140 Eslava, Arturo P., 169 Evans, Donald L., 157

Farrington, G. King, 333 Ferrandis, Maria D., 17 Ferre, Juan, 17 Ferrer, Estrella, 34 Font de Valdez, Graciela, 181 Fontenelle, Catherine, 23 Fortun, Adelia, 34 Fouly, Hanafy M., 291 Fox, George E., 91 Franco, C.F., 279 Franzin, Laura, 96 Freitas, Graciete, 1 Freitas-da-Fonseca, Antonio, 145 Friedman, S. Marvin, 119 Freholm, L. Oddvar, 372 Frutos, Roger, 200 Fukuda, Kouichi, 57

Gadani, Ferruccio, 205 Garg, Nikki, 274 Gaylarde, Christine C., 81 Gaylarde, Peter M., 81 Gibbs, Moreland, D., 333 Gibello, Alicia, 34 Gioannini, Paolo, 96 Glick, Bernard R., 362 Gonzalez, Tania, 362 Gregg, Keith, 164 Gregory, Devon A., 269 Grimaldi, Christine, 245 Groves, Theron O., 10 Grzadka, Malgorzata, 110 Gueguen, Marie-Madeleine, 23 Guezennec, Jean, 81

Hansen, Bjarne M., 51 Harmon, Stephen, 409 Hartmans, Sybe, 194 Hartung, John S., 279 Hatano, Toshitake, 418 Henriques, Isabel S., 137 Hernandez-Duque, Guillermo, 81 Higuchi, Kazuhiko, 217 Hiraishi, Akira, 398 Horiuchi, Tadao, 57 Hou, Ching T., 105 Hsueh, Yi-Huang, 47 Hwang, Seon-Kap, 250 Ichimatsu, Tokio, 217 Iriarte, Javier, 17, 402 Itoh, Yuko H., 57 Iwahana, Hidenori, 128

Jarret, Robert L., 29 Jarvis, Graeme, N., 327 Jaso-Friedmann, Liliana, 157 Joblin, Keith N., 327

Kaelin, Pascale, 205 Kale, R.K., 297 Kalmokoff, Martin, 164 Kanbe, Toshio, 398 Kao, Hsun-Sheng, 47 Kao, Shui-Shang, 227 Katerov, Viacheslav, 149 Kawarabata, Takeshi, 128 Kim, Jong-Guk, 250 Kolsto, Anne-Brit, 51, 372 Komaki, Toshiaki, 6 Kredics, Laszlo, 310 Kulkarni, Suneeta, 221 Kuo, Tsung Min, 105 Kuo, White-Shang, 227 Kurakake, Masahiro, 6 Kurosawa, Norio, 57 Kuzina, Lyudmila, 367

Lacey, Lawrence A., 200 Lambert, Sarah E., 269 Lanser, Alan C., 105 Latorre, Amparo, 264 Lauzon, Carol R., 367 Le Henaff, Michel, 23 Lecadet, M.-Marguerite, 17, 402 Lee, Sengyong, 283 Li, Jiping, 362 Li, Tianyong, 322 Lin, Jong-Huon, 227 Lindblad, Peter, 356 Lindgren, Per-Erik, 149 Loeffelholz, Michael, 288 Lopes, Maria M., 1 Lopes, Rui, 119 Lopez-Matas, M. Angeles, 169 Lovgren, Ann. 51 Lucas, François, 380

Malek, Wanda, 110 Madamwar, Datta, 274 Maeda, Isamu, 210 Maeda, Minoru, 418 Maldonado, Marria C., 181 Manczinger, Laszlo, 310 Mardh, Per-Anders, 145 Martin, Margarita, 34 Martin, Scott A., 387 Martinez-de-Oliveira, Jose, 145 Matsumura, Nobuya, 239 Matsuzawa, Yukiko, 398 May, Tammy, 176 McElreath, Susan D., 86 McLemore, Jeff B., 86 Mendo, Sonia A.L.V., 137 Mengs, Gerardo, 34 Miller, Daniel N., 392 Miller, Thomas A., 367 Miranda, Vicente S., 279 Mishra, Saroj K., 10 Mitchell, Thomas G., 269 Miura, Yoshiharu, 210 Miyasaka, Hitoshi, 210 Mizoguchi, Tadashi, 210 Mizuki, Eiichi, 217, 418 Mondou, Francine, 40 Moore, Edward R.B., 327

Nakagawa, Kiyomi, 6 Nakamura, Larry K., 105 Nakamura, Yukinobu, 418 Nautiyal, Chandra Shekhar, 221 Nishimura, Katsumi, 217

Ohba, Michio, 128, 217, 418 Oliveira, Maria-Jose, 356 Ortega-Morales, Otto, 81 Osaki, Makoto, 61, 67 Owen, Heather A., 283

Pandey, Ritu, 297
Pang, Yi. 123, 322
Peloquin, John J., 367
Pennazio, Marco, 96
Pichuantes, Sergio E., 114
Pierson, Duane L., 10
Pina-Vaz, Cidalia, 145
Pineiro, Silvia A., 302
Porcar, Manuel, 17, 402
Pratt, Joel, 306
Prochaska, Daniel J., 283
Purdy, Charles W., 306

Rang, Cecile, 200
Ranu, Rajinder S., 239
Ray, Arabinda, 274
Reeves, Rosalind A., 333
Reguant, Cristina, 351
Remsen, Charles C., 132
Rodrigues, Acacio A.G., 145
Rodriguez, Hilda, 362
Rossolini, Gian M., 362
Roy, Denis, 40
Ruijssenaars, Harald J., 194
Russa, Ryszard, 341

Author Index-Volume 40, 2000

Current Microbiology

An International Journal

Springer-Verlag New York Inc. 2000

Abeliovich, Aharon, 135 Akao, Tetsuyuki, 217 Ali, Rabia Y., 269 Allende, Jose L., 34 Almeida, Ligia, 356 Amick, Denise, 269 Anderson, Paige, 333 Ankarloo, Jonas, 51 Antal, Zsuzsanna, 310 Anton, Dora N., 72

Balows, Albert, 214 Banks, Donna, 29 Bao, Li-li, 101 Barnum, Susan R., 283 Beard, Cheryl E., 164 Bel, Yolanda, 17 Bennett, Jason, 409 Berg, Alexandra, 51 Bergquist, Peter L., 333 Berner, Jean-Marie, 372 Blanchart, Gerard, 380 Boiron, Patrick, 1 Boison, Gudrun, 315 Boopathy, R., 190 Bordons, Albert, 351 Bothe, Hermann, 315 Brantner, Christine A., 132 Buchholz, Lorie A., 132 Burge, Harriet A., 10 Burgess, Diana M., 327

Caballero, Primitivo, 17, 402 Cabodi, Daniela, 96 Caccavo, Frank, Jr. 344 Callaway, Todd R., 185 Caugant, Dominique A., 51, 372 Centron, Daniela, 302 Chak, Kin-Fu, 227 Chakrabarti, Syamal K., 239 Chang, Chung J., 29 Chatakondu, Saikrishna, 119 Chauhan, Sanjay, 297 Chen, Jianchi, 29 Cho, Jaie-Soon, 257 Choi, Yun-Jaie, 257 Chung. Dae-Kyun. 257 Collins, Mary Lynne Perille, 132 Cooley, J. Danny, 306 Correia, Antonio C.M., 137 Costa, Jose-Luis, 356 Cuezzo de Gines, Silvia, 181

D'Souza, Lisa M., 91 da Costa, Paulo I., 279 Das, Amitabha, 344 Dawson, Karl A., 140 Dellaglio, Franco, 351 Diaz-Minguez, Jose Maria, 169 Duarte, Jose, M.C., 137 Dumanoir, Veronique Cosmao, 17 Dutertre, Murielle, 245

Erbeznik, Milutin, 140 Eslava, Arturo P., 169 Evans, Donald L., 157

Farrington, G. King, 333 Ferrandis, Maria D., 17 Ferre, Juan, 17 Ferrer, Estrella, 34 Font de Valdez, Graciela, 181 Fontenelle, Catherine, 23 Fortun, Adelia, 34 Fouly, Hanafy M., 291 Fox, George E., 91 Franco, C.F., 279 Franzin, Laura, 96 Freitas, Graciete, 1 Freitas-da-Fonseca, Antonio, 145 Friedman, S. Marvin, 119 Freholm, L. Oddvar, 372 Frutos, Roger, 200 Fukuda, Kouichi, 57

Gadani, Ferruccio, 205 Garg, Nikki, 274 Gaylarde, Christine C., 81 Gaylarde, Peter M., 81 Gibbs, Moreland, D., 333 Gibello, Alicia, 34 Gioannini, Paolo, 96 Glick, Bernard R., 362 Gonzalez, Tania, 362 Gregg, Keith, 164 Gregory, Devon A., 269 Grimaldi, Christine, 245 Groves, Theron O., 10 Grzadka, Malgorzata, 110 Gueguen, Marie-Madeleine, 23 Guezennec, Jean, 81

Hansen, Bjarne M., 51 Harmon, Stephen, 409 Hartmans, Sybe, 194 Hartung, John S., 279 Hatano, Toshitake, 418 Henriques, Isabel S., 137 Hernandez-Duque, Guillermo, 81 Higuchi, Kazuhiko, 217 Hiraishi, Akira, 398 Horiuchi, Tadao, 57 Hou, Ching T., 105 Hsueh, Yi-Huang, 47 Hwang, Seon-Kap, 250 Ichimatsu, Tokio, 217 Iriarte, Javier, 17, 402 Itoh, Yuko H., 57 Iwahana, Hidenori, 128

Jarret, Robert L., 29 Jarvis, Graeme, N., 327 Jaso-Friedmann, Liliana, 157 Joblin, Keith N., 327

Kaelin, Pascale, 205 Kale, R.K., 297 Kalmokoff, Martin, 164 Kanbe, Toshio, 398 Kao, Hsun-Sheng, 47 Kao, Shui-Shang, 227 Katerov, Viacheslav, 149 Kawarabata, Takeshi, 128 Kim, Jong-Guk, 250 Kolsto, Anne-Brit, 51, 372 Komaki, Toshiaki, 6 Kredics, Laszlo, 310 Kulkarni, Suneeta, 221 Kuo, Tsung Min, 105 Kuo, White-Shang, 227 Kurakake, Masahiro, 6 Kurosawa, Norio, 57 Kuzina, Lyudmila, 367

Lacey, Lawrence A., 200 Lambert, Sarah E., 269 Lanser, Alan C., 105 Latorre, Amparo, 264 Lauzon, Carol R., 367 Le Henaff, Michel, 23 Lecadet, M.-Marguerite, 17, 402 Lee, Sengyong, 283 Li, Jiping, 362 Li, Tianyong, 322 Lin, Jong-Huon, 227 Lindblad, Peter, 356 Lindgren, Per-Erik, 149 Loeffelholz, Michael, 288 Lopes, Maria M., 1 Lopes, Rui, 119 Lopez-Matas, M. Angeles, 169 Lovgren, Ann. 51 Lucas, François, 380

Malek, Wanda, 110 Madamwar, Datta, 274 Maeda, Isamu, 210 Maeda, Minoru, 418 Maldonado, Marria C., 181 Manczinger, Laszlo, 310 Mardh, Per-Anders, 145 Martin, Margarita, 34 Martin, Scott A., 387 Martinez-de-Oliveira, Jose, 145 Matsumura, Nobuya, 239 Matsuzawa, Yukiko, 398 May, Tammy, 176 McElreath, Susan D., 86 McLemore, Jeff B., 86 Mendo, Sonia A.L.V., 137 Mengs, Gerardo, 34 Miller, Daniel N., 392 Miller, Thomas A., 367 Miranda, Vicente S., 279 Mishra, Saroj K., 10 Mitchell, Thomas G., 269 Miura, Yoshiharu, 210 Miyasaka, Hitoshi, 210 Mizoguchi, Tadashi, 210 Mizuki, Eiichi, 217, 418 Mondou, Francine, 40 Moore, Edward R.B., 327

Nakagawa, Kiyomi, 6 Nakamura, Larry K., 105 Nakamura, Yukinobu, 418 Nautiyal, Chandra Shekhar, 221 Nishimura, Katsumi, 217

Ohba, Michio, 128, 217, 418 Oliveira, Maria-Jose, 356 Ortega-Morales, Otto, 81 Osaki, Makoto, 61, 67 Owen, Heather A., 283

Pandey, Ritu, 297
Pang, Yi. 123, 322
Peloquin, John J., 367
Pennazio, Marco, 96
Pichuantes, Sergio E., 114
Pierson, Duane L., 10
Pina-Vaz, Cidalia, 145
Pineiro, Silvia A., 302
Porcar, Manuel, 17, 402
Pratt, Joel, 306
Prochaska, Daniel J., 283
Purdy, Charles W., 306

Rang, Cecile, 200
Ranu, Rajinder S., 239
Ray, Arabinda, 274
Reeves, Rosalind A., 333
Reguant, Cristina, 351
Remsen, Charles C., 132
Rodrigues, Acacio A.G., 145
Rodriguez, Hilda, 362
Rossolini, Gian M., 362
Roy, Denis, 40
Ruijssenaars, Harald J., 194
Russa, Ryszard, 341

Russell, James B., 185 Rychlik, Jennifer L., 176

Saavedra, Claudia P., 114 Sabater, Beatriz, 264 Saitoh, Hiroyuki, 217 Salema, Roberto, 356 Sales, Muriel, 380 Santo Domingo, Jorge W., 409 Sato, Ryoichi, 128 Schalen, Claes, 149 Schmitz, Oliver, 315 Sekizaki, Tsutomu, 61, 67 Shah, Vishal, 274 Shaw, Gwo-Chyuan, 47 Shioji, Norio, 210 Silva, Francisco J., 264 Simonet, Jean-Marc, 245 Singhal, Gauri S., 297 Skillman, Lucy C., 327

Smith, Barbara J., 29 Soares, M. Ines M., 135 Soler, Teresa, 264 Sordelli, Daniel O., 302 Stingele, Francesca, 194 Straus, David C., 306 Strawn, Kent F., 10 Strobel, Herbert J., 140 Strompl, Carsten, 327 Sugihara, Minako, 6 Sun, Fan, 322 Suzuki, Jiro, 398

Tainter, Frank H., 86
Takamatsu, Daisuke, 61, 67
Tamagnini, Paula, 356
Teather, Ron M., 164
Teixeira, Diva C., 279
Torriani, Sandra, 351
Totolian, Artem A., 149

Tsuji, Naotoshi, 67 Turska-Szewczuk, Anna, 341 Tzeng, Ching-Chou, 227

Urbanski, Diane, 119

Varel, Vincent H., 392 Vasquez, Claudio C., 114 Vilgalys, Rytas J., 269 Vincent, Daniel, 40 Volokita, Michal, 135

Wani, Emanuel L., 387 Ward, Pierre, 40 Wasano, Naoya, 128 Wdowiak, Sylwia, 110 Wei, Wan-zhi, 101 Wilkinson, Henry T., 291 Williams, Diane P., 333 Willson, Richard C., 91 Wu, Pei-I, 233

Xie, You-tao, 101 Xu, Jianping, 269 Xu, Minqing, 123

Yagi, Kiyohito, 210 Yang, Mei-Kwei, 233 Yang, Yen-Chun, 233 Yasunaga-Aoki, Chisa, 128 Yoell, Heather J., 269 Yo-u, Shou, 6 Yu, Jianxiu, 123, 322 Yuan, Zhiming, 322

Zapparoli, Giacomo, 351 Zhang, Yingjie, 123 Zhang, Yongmei, 322

Current Microbiology

An International Journal

Springer-Verlag New York Inc. 2000

- Acid phosphatase, from Sulfolobus acidocaldarius, purification and characterization of, 57
- Acidiphilium rubrum, electron microscopic study of ultrastructure of, 398
- Acinetobacter BEM2, mineralization of 4-hydroxybenzoate by, 34
- Acyrthosiphon pisum, molecular characterization of leucine plasmid from Buchnera aphidicola from, 264
- Airborne fungi, in large office building, dynamics of, 10
- Alkaline serine protease, from Aspergillus terreus (IJIRA 6.2), purification and characterization of, 239
- α-pinene, effect on cattle waste emissions, 392 Amino acids, effect on growth and proteolytic activity of rumen bacteria, 380
- Ammonia, effect on growth and proteolytic activity of rumen bacteria, 380
- Amoxicillin, susceptibility of Helicobacter pylori strains to, 96
- Ampicillin-resistance gene, development of promoter vector pACPR33 for E. coli based on, 302
- Anabaena variabilis, transcriptional analysis by RT-PCR of hydrogenase genes of, 315
- Anacystis nidulans, transcriptional analysis by RT-PCR of hydrogenase genes of, 315
- Aniline, sulfate-reducing bacterial consortium metabolizes tetryl to, 190
- Antimicrobial agents, effect on livestock waste emissions, 392
- Antisense oligodeoxynucleotides, parasite antigen expression inhibited by, 157
- Artificial RNA, microbial monitoring with. 91
 Aspergillus terreus (IJIRA 6.2), purification
 and characterization of extracellular alkaline serine protease from, 239
- Astragalus cicer rhizobia, morphology and characteristics of phages specific for, 110
- Bacillus cereus S1, properties of chitosanase from, 6
- Bacillus licheniformis strain, thermotolerant, genetic characterization of, 137
- Bacillus megaterium, basal-level expression of P450_{BM-1} gene negatively affected by bm1P1 gene, 47
- Bacillus sphaericus, coexpression of cytlAa gene of Bacillus thuringiensis subsp. israelensis and binary toxin gene of, 322
- Bacillus stearothermophilus LV, nucleotide sequence and analysis of gene encoding bst LVI DNA methyltransferase from, 114
- Bacillus subtilis, cat-86 gene overexpression and thermosensitivity in, 119

- Bacillus thuringiensis, in fresh waters of Japan, 217
 - in marine sediments of Japan, 418 on cured tobacco leaves, frequency and distribution of, 205
 - replication origin of, 123
- Bacillus thuringiensis acrystalliferous strain, synergism of cyt1Aa gene and binary toxin gene in, 322
- Bacillus thuringiensis ser, balearica and ser, navarrensis, characterization of, 17
- Bacillus thuringiensis strains, electron microscopic study of spherical parasporal inclusions of, 128
 - from aquatic environments in Spain, isolation and characterization of, 402
- Bacillus thuringiensis subsp. israelensis, coexpression of binary toxin gene of Bacillus sphaericus and cytlAa gene of, 322 genomic stability of, 51
- Bacillus thuringiensis subsp. thompsoni, synergistic activity against Cydia pomonella displayed by crystal proteins from, 200
- Bacillus thuringiensis subsp. wuhanensis, new cry genes cloned from, 227
- β-fructofuranosidase, invertase from Lactobacillus reuteri CRL 1100 shown to be, 181
- β-glucosidase, of Trichoderma harzianum, effect of water potential on secretion and in vitro activities of, 310
- β-xylosidase, of Trichoderma harzianum, effect of water potential on secretion and in vitro activities of, 310
- Binary toxin gene, of Bacillus sphaericus, coexpressed with cytlAa gene in acrystalliferous strain of Bacillus thuringiensis, 322
- Bleomycin resistance gene, internal bacterial from Rhagoletis completa Cresson gut transformed to express, 367
- bm1P1 gene, of Bacillus megaterium, basallevel expression of P450_{BM-1} negatively affected by, 47
- BstLVIM gene, nucleotide sequence of and comparison with other amino–DNA methyltransferases, 114
- Buchnera aphidicola, from Acyrthosiphon
- pisum, sequence of leucine plasmid of, 264 Burkholderia cepacia IS-16, cloning and characterization of gene encoding protein facilitating phosphatase activity of, 362
- Butterfly stain, of Chilean tepa tree, bacteria associated with, 86
- Butyrivibrio fibrisolvens, effects of ammonia and amino acids on growth and proteolytic activity of, 380
 - promoter–rescue plasmid isolated and characterized flagellin gene (flaA) promoter from, 164

- Calcium channel blockers, germ tube formation by Candida albicans inhibited by, 145
- Caldicellulosiruptor isolate Tok7B.1, multidomain and multifunctional glycosyl hydrolases from, 333
- Candida albicans, local anesthetics and calcium channel blockers inhibit germ tube formation by, 145
- cat-86 gene, thermosensitivity of Bacillus subtilis and overexpression of, 119
- Cattle, effect of antimicrobial agents on waste emissions from, 392 grazing, isolation and identification of ruminal methanogens from, 327
- celB gene, of Caldicellulosiruptor isolate Tok7B.1, sequence of, 333
- celE gene, of Caldicellulosiruptor isolate Tok7B.1, sequence of, 333
- Cellobiohydrolase, of Trichoderma harzianum, effect of water potential on secretion and in vitro activities of, 310
- Cellulolytic activity, modified plate method for detection of microorganisms with, 135
- Chitin synthase genes, in Mucor circinelloides, cloning, analysis, and expression of during dimorphism, 169
- Chitosanase, from Bacillus cereus \$1, enzymatic properties of, 6
- Chlorhexidine diacetate, effect on cattle waste emissions, 392
- Chymotrypsin, of Trichoderma harzianum, effect of water potential on secretion and in vitro activities of, 310
- Clarithromycin, susceptibility of Helicobacter pylori strains to, 96
- Clavan, biodegradability of exopolysaccharides produced by, 194
- Clostridium sp., associated with butterfly stain of Chilean tepa tree, 86
- Clostridium thermocellum, expression in probiotic Lactobacilli of endoglucanase gene (celA) of, 257
- cry genes, cloned from Bacillus thuringiensis subsp. wuhanensis strain, 227
 - PCR differentiation of *Bacillus thuringien*sis strains on tobacco leaves with, 205
- Cryptic plasmid pSSU1, isolated from Streptococcus suis serotype 2, sequence analysis of, 61
- Cryptococcus neoformans, Tricholoma matsutake as representative of Basidiomycota as alternative to, 250
 - uniparental mitochondrial transmission in sexual crosses in, 269
- Culturability, of Salmonella strains in river water, 409
- Cyanobacteria, diversity of hydrogenases in,

- Cyanothece sp. ATCC 51142, physical and thermal analysis of extracellular polysaccharide produced by, 274
- Cydia pomonella, crystal proteins from Bacillus thuringiensis display synergistic activity against, 200
- cysB mutants, cysteine regulon expression of Salmonella typhimurium affects response to mecillinam of, 72
- Cysteine regulon, of Salmonella typhimurium, induction of, 72
- cytlAa gene, of Bacillus thuringiensis subsp. israelensis, coexpressed with binary toxin gene in acrystalliferous strain of Bacillus thuringiensis, 322
- Derjaguin-Landau-Verwey-Overbeek (DLVO) theory, correlation between cell adhesion and dissimilatory Fe(III) oxide reduction shown by, 344
- Dissimilatory Fe(III) oxide reduction, by Shewanella alga BrY, cell adhesion required in, 344
- Double cell bulk acoustic wave sensor, for ion chromatographic study of relation between magnesium and organism growth, 101
- E-test, Helicobacter pylori susceptibility to antimicrobial agents evaluated by, 96
- Endoglucanase-encoding gene (celA), of Clostridium thermocellum expressed in Lactobacillus gasseri and L. johnsonii, 257
- Energy dispersive x-ray analysis, elements produced by Acidiphilium rubrum detected by, 398
- Enhanced green fluorescent protein, internal bacteria from Rhagoletis completa Cresson gut transformed to express, 367
- Enterobacter agglomerans, from Rhagoletis completa Cresson gut, transformed to produce enhanced green fluorescent protein, 367
- Escherichia coli, promoter vector pACPR33 based on ampicillin-resistance gene developed for, 302
- ET-5 complex, comparison of genomic variation in Neisseria meningitidis strain 44/76 and other strains of, 372
- Exochitinase, of Trichoderma harzianum, effect of water potential on secretion and in vitro activities of, 310
- Exopolysaccharides, food-associated, biodegradability of, 194
- Extracellular polysaccharide, from Cyanothece sp. ATCC 51142, physical and thermal analysis of, 274
- Fatty acid analysis, phototrophic biofilms on ancient Mayan buildings detected by, 81
- Fibrobacter succinogenes S85, effect of Methanobrevibacter smithii on growth rate, organic acid production, and ATP activity of, 176

- Flagellin gene (flaA) promoter, from Butyrivibrio fibrisolvens characterized by promoter-rescue plasmid pBHE, 164
- Fresh water, Bacillus thuringiensis frequency in, 217
- Gaeumannomyces graminis, group I intron in nuclear small subunit rDNA of, 291
- Gel electrophoresis, pulsed field, genomic DNA fingerprinting of Oenococcus oeni strains in wine by, 351
 - two-dimensional, light-specific proteins produced by Synechococcus sp. PCC 7942 shown by, 297
- Germ tube formation, by Candida albicans inhibited by local anesthetics and calcium blockers, 145
- Gloeocapsa, in ancient Mayan buildings, 81 Glucose phosphorylation, phosphoenolpyruvate-dependent, by Megasphaera elsdensii, effect of growth substrate and extracellular pH on, 387
- Glycosyl hydrolase gene clusters, from Caldicellulosiruptor isolate Tok7B.1, sequence of 333
- GMP synthetase, in Lactobacillus rhamnosus, genetic organization and polymorphism of guaA gene encoding, 245
- Group I intron, in nuclear small subunit rDNA of Graeumannomyces graminis, 291
- guaA gene, encoding GMP synthetase in Lactobacillus rhamnosus, genetic organization and polymorphism of, 245
- Heat shock protein HSP16.6, in Synechocystis sp. PCC 6803, role in development of thermotolerance and thylakoid stability in, 283
- Helicobacter pylori strains, clarithromycin and amoxicillin susceptibility of, 96
- Histidine biosynthesis genes, in Thermoanaerobacter ethanolicus, organization and sequence of, 140
- Hydrogen production, by photosynthetic bacterium with seawater, effect of sulfatereducing bacteria on, 210
- Hydrogenase genes, in cyanobacteria, diversity of, 356
- of Anacystis nidulans and Anabaena variabilis, transcriptional analysis of, 315
- 4-Hydroxybenzoate, metabolized by Acinetobacter strain BEM2, 34
- 10-Hydroxystearic acid, produced by Sphingobacterium thalpophilum strains isolated from compost enriched by oleic acid, 105
- Inclusion bodies, from Bacillus thuringiensis subsp. thompsoni, toxicity to Cydia pomonella, 200
- Indoor air, of large office building, longitudinal sampling study of, 10
- Intracytoplasmic membrane, from Methylomicrobium album BG8, isolation of, 132

- Invertase, from Lactobacillus reuteri CRL 1100, purification and characterization of, 181
- Iodoacetate, effect on cattle waste emissions, 392
- Ion chromatography, with DCBAW detector detects magnesium concentration during whole cell culture, 101
- Ionic channel blockade, germ tube formation by Candida albicans inhibited by local anesthetics related to, 145
- 10-Ketostearic acid, produced by Sphingobacterium thalpophilum strains isolated from compost enriched by oleic acid, 105
- Klebsiella pneumoniae, from Rhagoletis completa Cresson gut, transformed to produce enhanced green fluorescent protein, 367
- Lactobacilli, molecular identification of, 40 Lactobacillus gallinarum strains, characterized by RAPD and genomic sizes estimated by PFGE, 40
- Lactobacillus gasseri, expression of Clostridium thermocellum endoglucanase gene in 257
- Lactobacillus helveticus Lh59, biodegradability of exopolysaccharides produced by, 194
- Lactobacillus johnsonii, expression of Clostridium thermocellum endoglucanase gene in, 257
- Lactobacillus reuteri CRL 1100, purification and characterization of invertase from, 181
- Lactobacillus rhamnosus, genetic organization and polymorphism of guaA gene encoding GMP synthetase in, 245
- Lactobacillus sakei 0-1, biodegradability of exopolysaccharides produced by, 194
- Lactococcus lactis ssp. cremoris B40, biodegradability of exopolysaccharides produced by, 194
- Large subunit rDNA, in Tricholoma matsutake, structure and phylogeny of, 250
- Lens paper, microorganisms with overall cellulolytic activity detected using, 135
- Leucine plasmid, from Buchnera aphidicola from Acyrthosiphon pisum, molecular characterization of, 264
- lexA gene, of Xanthomonas campestris pv. citri, cloning and analysis of, 233
- lexA mutant, of Xanthomonas campestris pv. citri, effect on recA expression, 233
- Lipase activity, by Pasteurella multocida strains, 306
- Lipopolysaccharide, role in adsorption of phage A1 into Mesorhizobium loti HAMBI 1129, 341
- Lipoproteins, in plasma membrane of Mycoplasma agalactiae, contain N-acyl diacyl glycerylcysteine, 23
- Local anesthetics, germ tube formation by Candida albicans inhibited by, 145

- Lotus corniculatus, phage A1 infecting Mesorhizobium loti HAMBI 1129 isolated from, 341
- Madurella mycetomatis, RAPD and REA as typing systems for, 1
- Magnesium concentration, during whole cell culture detected by ion chromatography using, 101
- Maltose phosphorylation, by Megasphaera elsdensii, effect of growth substrate and extracellular pH on, 387
- Marine sediments, Bacillus thuringiensis occurrence in, 418
- Mecillinam, induction of cysteine regulon of Salmonella typhimurium in LB medium affects cysB mutants response to, 72
- Megasphaera elsdensii, effects of growth substrate and extracellular pH on glucose and maltose phosphorylation by, 387
- Mesorhizobium loti HAMBI 1129, isolation of phage A1 from Lotus corniculatus active against, 341
- Metal removal, gel formation by exopolysaccharide from Cyanothece sp. ATCC 51142 used for, 274
- Methanobacterium formicicum, in grazing cattle rumen, isolation and identification of,
- Methanobrevibacter smithii, effect on growth rate, organic acid production, and ATP activity of ruminal cellulolytic bacteria, 176
- Methanomicrobium mobile, in grazing cattle rumen, isolation and identification of, 327
- Methanosarcina barkeri, in grazing cattle rumen, isolation and identification of, 327
- Methylomicrobium album BG8, isolation of intracytoplasmic membrane from, 132
- Mitochondrial DNA transmission, in sexual crosses in Cryptococcus neoformans, 269
- Monensin, variations in Prevotella species resistance to, 185
- Mucor circinelloides, chitin synthase gene Mcchs1 differentially expressed during dimorphism of, 169
- Multilocus enzyme electrophoresis (MLEE), genetic diversity of Bacillus thuringiensis subsp. israelensis studied by, 51
- Mycoplasma agalactiae, acylation of plasma membrane proteins of, 23
- Neisseria meningitidis strains, of ET-5 complex, genomic rearrangements of, 372
- Nonspecific cytotoxic cells, sequence-specific antisense oligodeoxynucleotides determine Tetrahymena pyriformis antigen recognized by, 157
- O-acetylserine lyase, from Streptococcus suis, cloning and characterization of gene encoding 67
- Oenococcus oeni strains, in wine, RAPD-PCR vs. PFGE in typing of, 351

- Office building, dynamics of airborne fungal populations in, 10
- Oleic acid, 10-HSA and 10-KSA produced by Sphingobacterium thalpophilum strains from compost enriched by, 105
- P450_{RM-1} bm1P1 gene of Bacillus megaterium negatively affects basal-level expression of, 47
- Parasporal inclusions, of Bacillus thuringiensis from Japanese marine sediments, 418 of Bacillus thuringiensis strains, compara-
- tive electron microscopic study of, 128

 Pasteurella multocida, lipase activity from strains of, 306
- pH stress, effect on temperature-tolerant Rhizobium sp. NBRI330 nodulating Prosopis juliflora, 221
- Phosphatase activity, of Burkholderia cepacia IS-16, isolation of gene encoding protein associated with, 362
- Photosynthetic bacterium, effect of sulfatereducing bacteria on outdoor hydrogen production with seawater by, 210
- Phototrophic biofilms, on ancient Mayan buildings in Yucatan, Mexico, 81
- Pieris rapae larvae, new cry gene from Bacillus thuringiensis subsp. wuhanensis strain toxic to, 227
- Plasma membrane proteins, of Mycoplasma agalactiae, acylation of, 23
- Plasmid pPL708C2, effect on thermosensitivity of Bacillus subtilis, 119
- Plasmid vector, for selection of promoters in Escherichia coli, 302
- Plutella xylostella larvae, new cry gene from Bacillus thuringiensis subsp. wuhanensis strain toxic to, 227
- Polymerase chain reaction, arbitrarily primed, Xylella fastidiosa strains distinguished by,
- Prevotella albensis, effects of ammonia and amino acids on growth and proteolytic activity of, 380
- Prevotella strains, variations in monensin sensitivity in, 185
- Probiotic Lactobacilli, genetically modified by endoglucanase gene, characterization of, 257
- Promoter-rescue plasmid pBHE, identification and characterization of flagellin promoters in Butyrivibrio fibrisolvens by, 164
- Prosopis juliflora, effects of salt and pH stress on Rhizobium sp. NBRI330 nodulating, 221
- Pseudomonas putida, expression of marker RNAs in, 91
- Pseudomonas sp., associated with butterfly stain of Chilean tepa tree, 86
- Pulse field gel electrophoresis (PFGE), genetic diversity of Bacillus thuringiensis subsp. israelensis studied by, 51 genomic DNA fingerprinting of Oenococcus oeni strains in wine by, 351

- Randomly amplified polymorphic DNA (RAPD) analysis, genetic diversity of Bacillus thuringiensis subsp. israelensis studied by, 51
 - Madurella mycetomatis strains typed using, 1 similarity among Lactobacilli strains based on, 40
- Randomly amplified polymorphic DNA PCR (RAPD-PCR), genomic DNA fingerprinting of Oenococcus oeni strains in wine by, 351
- Rapid freeze substitution technique, electron microscopic study of Acidiphilium rubrum ultrastructure using, 398
- recA gene, of Xanthomonas campestris pv. citri, lexA gene regulates expression of, 233
- Replication origin, of Bacillus thuringiensis, sequence analysis and stability of, 123
- Restriction endonuclease assay (REA), Madurella mycetomatis strains typed using, 1
- Restriction fragment length polymorphism (RFLP), from Cryptococcus neoformans strains distinguished by, 269
- Reverse transcriptase polymerase chain reaction (RT-PCR), transcriptional analysis of hydrogenase genes of Anacystis nidulans and Anabaena variabilis monitored by, 315
- Rhagoletis completa Cresson, genetic transformation of internal extracellular bacteria from gut of, 367
- Rhizobiophages, for Astragalus cicer rhizobia, morphology and characteristics of, 110
- Rhizobium sp. NBR1330, effects of salt and pH stress on growth of, 221
- Rhodovulum sulfidophilum W-1S, effect of sulfate-reducing bacteria on outdoor hydrogen production with seawater by, 210
- Ribosomal DNA, of Gaeumannomyces graminis, group I intron in, 291
- River water, survival of Salmonella strains in, 409
- Rolling circle mechanism, cryptic plasmid pSSU1 from Streptococcus suis serotype 2 replicates by, 61
- Ruminal bacteria, proteolytic, effects of ammonia and amino acids on growth and proteolytic activity of, 380
- Ruminal methanogens, from grazing cattle, isolation and identification of, 327
- Ruminococcus albus 8, effect of Methanobrevibacter smithii on growth rate, organic acid production, and ATP activity of, 176
- Ruminococcus flavefaciens FD-1, effect of Methanobrevibacter smithii on growth rate, organic acid production, and ATP activity of, 176
- Salmonella strains, in river water, survival of, 409
- Salmonella typhimurium, cloned O-acetylserine lyase gene from Streptococcus suis homolog of CysM in, 67 induction of cysteine regulon of, 72

Salt, effect on temperature-tolerant Rhizobium sp. NBR1330 nodulating Prosopis juliflora, 221

Sequence-specific antisense oligodeoxynucleotides, Tetrahymena pyriformis antigen recognized by nonspecific cytotoxic cells determined by, 157

Serovars, of Bacillus thuringiensis, characterization of, 17

Serum opacity factor (SOF) proteins, of Streptococcus pyrogenes and S. dysgalactiae, lipoproteinase and fibronectin-binding activities of, 149

Shewanella alga BrY, adhesion required for dissimilatory Fe(III) oxide reduction by, 344

16S rDNA sequences, Xylella fastidiosa identified using, 29

sof63 gene, of Streptococcus pyrogenes, cloning and sequencing of, 149

Sphingobacterium thalpophilum strains, 10-KSA and 10-HSA produced by, 105

Streptococcus bovis, effects of ammonia and amino acids on growth and proteolytic activity of, 380

Streptococcus dysgalactiae, SOF proteins from Streptococcus pyrogenes similar to that of, 149

Streptococcus pyrogenes, sequence analysis of serum opacity factor proteins from, 149

Streptococcus suis, cloning and characterization of gene encoding O-acetylserine lyase from, 67 Streptococcus suis serotype 2, sequence analysis of small cryptic plasmid isolated from, 61

Streptococcus thermophilus, biodegradability of exopolysaccharides produced by, 194

Sulfate-reducing bacteria, effect on outdoor hydrogen production by photosynthetic bacterium with seawater, 210

Sulfate-reducing bacterial consortium, anaerobic degradation of tetryl to aniline by, 190

Sulfolobus acidocaldarius, isolation and enzymatic properties of acid phosphatase from,

Survival study, of Salmonella strains in river water, 409

Synechococcus sp. PCC 7942, 2D gel electrophoresis shows light-specific proteins synthesized by, 297

Synechocystis, in ancient Mayan buildings, 81 Synechocystis sp. PCC 6803, role of HSP16.6 in thermotolerance and thylakoid stability in, 283

Tepa trees, bacteria associated with butterfly stain in. 86

Tetryl, sulfate-reducing bacterial consortium forms aniline during metabolism of, 190

Thermoanaerobacter ethanolicus, organization and sequence of histidine biosynthesis genes hisH. -A, -F, -IE in, 140 Tipula oleracea, Bacillus thuringiensis strains from Spanish aquatic environments are toxic against, 402

Tobacco leaves, frequency and distribution of Bacillus thuringiensis strains on, 205

Trichoderma harzianum strain T66, effect of water potential on growth, enzyme secretion, and in vitro enzyme activities of, 310

Tricholoma matsutake, structure and phylogeny of large subunit ribosomal RNA in, 250

Water potential, effect on growth, enzyme secretion, and in vitro enzyme activities of Trichoderma harzianum strain T66, 310

Whole cell growth, relation with magnesium studied by ion chromatography, 101

Xanthan, biodegradability of exopolysaccharides produced by, 194

Xanthomonas campestris pv. citri, identification of lexA gene in and construction of lexA mutant of, 233

Xenococcus, biomass on interior surfaces of ancient Mayan buildings, 81

Xylella fastidiosa, 16S rDNA sequence used to identify, 29 arbitrarily primed PCR distinguishes strains of, 279

xynA gene, of Caldicellulosiruptor isolate Tok7B.1, sequence of, 333